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APPLICATION NO	. !	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/634,961	961 08/05/2003		Peter M. Palese	6923-115	7104
20583	7590	06/21/2005		EXAMINER	
JONES D			MOSHER, MARY		
222 EAST 41ST ST NEW YORK, NY 10017				ART UNIT	PAPER NUMBER
	,			1648	
			DATE MAILED: 06/21/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)				
	10/634,961	PALESE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Mary E. Mosher, Ph.D.	1648				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>09 February 2005</u> .						
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Disposition of Claims						
 4) Claim(s) 6-10 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 6-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	cepted or b) objected to by the E drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	· "					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>8/5/2003</u>. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

DETAILED ACTION

Claim Rejections - 35 USC § 112

Claims 8-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In these claims, it is not clear what "NS1," "E3L," or "VP35" mean, since the claims do not identify the origin or source of these proteins. This rejection could be obviated by amending the claims to refer respectively to influenza virus NS 1, vaccinia virus E3L, and Ebola virus VP35.

Claims 6-7 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claim 6 involves a cell that expresses an interferon-responsive reporter gene and also expresses "an interferon antagonist." The "interferon antagonist" constitutes a genus of products. The specification teaches a variety of interferon antagonists encoded by viruses, but provides no disclosure whatsoever regarding the broader genus of "interferon antagonists." The viral interferon antagonists are diverse, indicating even broader diversity within the broader genus. Considering the scope of the claims in contrast to the scope of the supporting disclosure, it is concluded that the specification does not reasonably convey possession of the assay using the generic "interferon antagonist."

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Claims 6-7 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a method involving expression of a viral interferon antagonist, does not reasonably provide enablement for the broader genus using a generic interferon antagonist. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. These claims are directed to a screening method for identifying a potential antiviral agent, by testing a compound's ability to counteract an interferon antagonist. This method would clearly work to identify potential antiviral agents when the interferon antagonist is a viral product, but the specification provides no guidance to indicate how a nonviral interferon antagonist would be used to identify antiviral agents. Considering the scope of the claimed method and the limited disclosure in the specification, it is concluded that undue experimentation would be required to enable the full scope of the method as claimed.

Katze et al US 6,326,151 is seen as the closest prior art, in teaching a screening method for identifying potential antiviral agents using the interaction between HCV NS5A and PKR protein kinase, which is involved in cellular interferon response. However, Katze monitors kinase activity indirectly or directly, and does not teach or suggest monitoring expression of a reporter gene operatively linked to an interferon responsive promoter element.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary E. Mosher, Ph.D. whose telephone number is 571-272-0906. The examiner can normally be reached on M-T and alternate F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel can be reached on 571-272-0902. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

6/20/05

MARY E. MOSHER, PH.D.
PRIMARY EXAMINER